

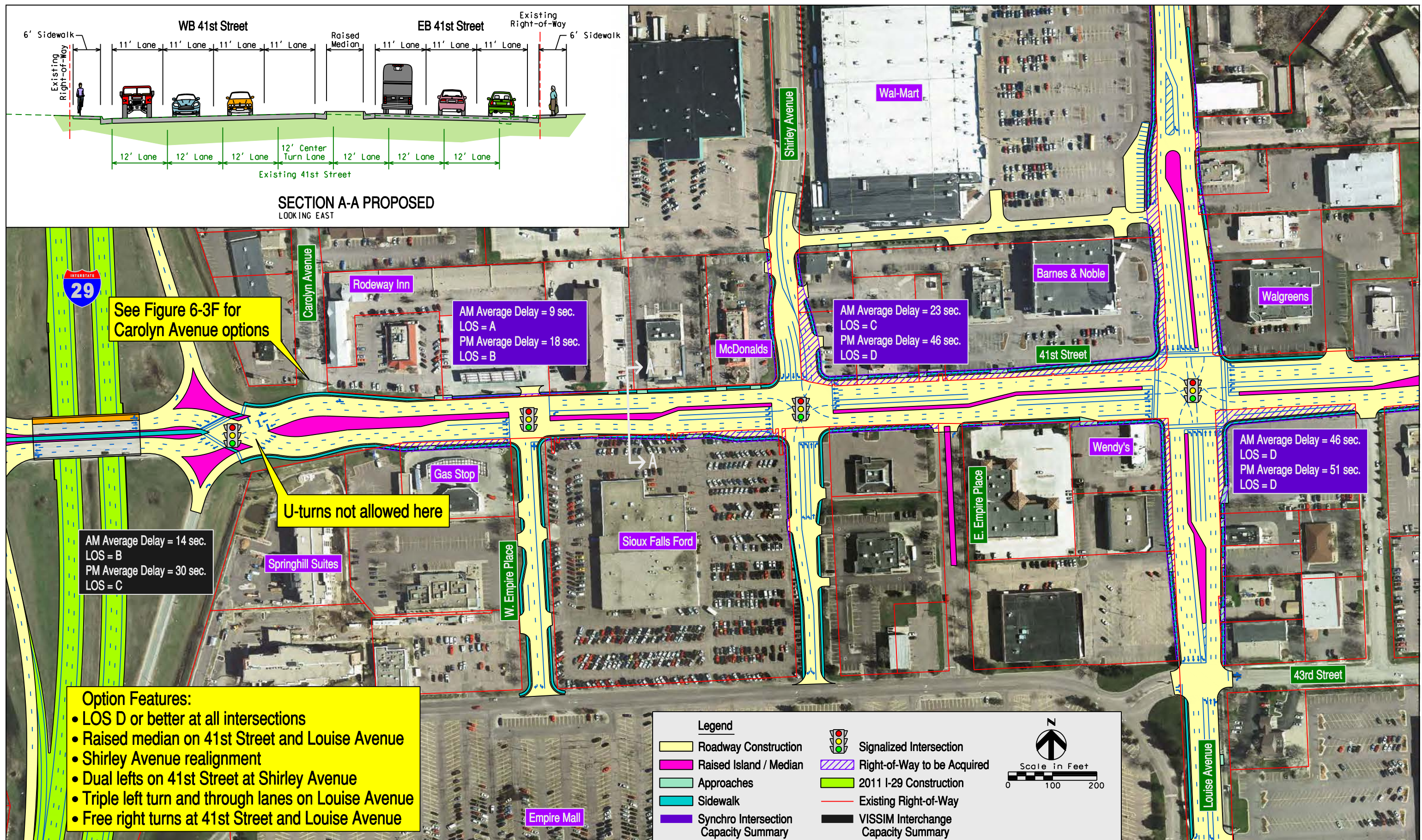
Consultant recommended
option: D then expand to E

Segment 3 Concept Options Comparison

Option	A - Raised median and triple thru/lefts	B - Raised median and triple lefts	C – No expansion realign Shirley	D - Raised median to Shirley leave 41 st /Louise	E - Center Turn Overpass
Year 2035 Traffic Operations (PM)					
I-29 NB off-ramp intersection					
Level of Service (LOS)	C	C	C	C	C
Avg. Delay (seconds)	30	30	30	30	30
West Empire Place intersection					
Level of Service (LOS)	B	A	B	A	A
Avg. Delay (seconds)	18	6	17	8	8
Shirley Avenue intersection					
Level of Service (LOS)	D	E	F	D	D
Avg. Delay (seconds)	46	61	83	35	35
Louise Avenue intersection					
Level of Service (LOS)	D	F	F	F	C
Avg. Delay (seconds)	51	103	125	125	20-25
Roadway Safety	Moderate	Moderate	Poor	Moderate	Good
Right-of-Way Impacts	Major	Moderate	Moderate	Minimal	Moderate
Construction Cost	Moderate	Moderate	Low	Moderate	High
Ease of Construction	Moderate	Moderate	Simple	Simple	Complex
Traffic Impacts during Construction	Major	Major	Minimal	Moderate	Major
Business/landowner Acceptance	Poor	Poor	Good	Moderate	Moderate
Expected Driver Acceptance	Poor	Poor	Moderate	Moderate	Unknown
Meets design guidelines	Yes	Yes	No	Partially	Yes
Pedestrian benefits	Good	Good	Moderate	Moderate	Good

Benefits/drawbacks of options as well as basis of Consultant Recommended Option are listed on the project website:

http://www.sddot.com/pe/projdev/planning_ss_I29Exit77.asp



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Date: 9-21-2011
Checked By: J. Unruh
Date: 9-21-2011
Revisions: 3-9-2012



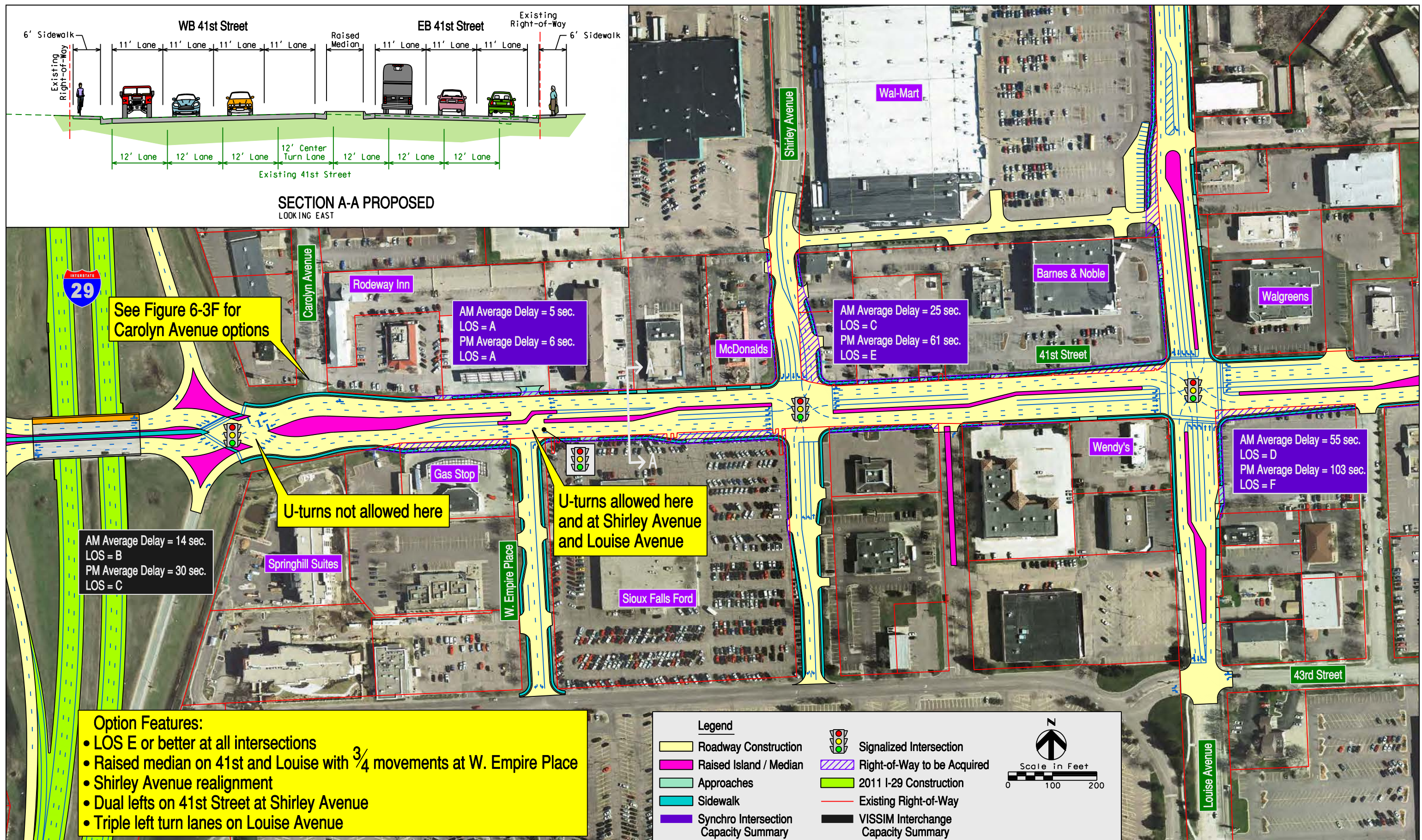
41st Street from Interstate 29 to Louise Avenue
Improvement Option A

Figure
6-3A

Date of Aerial Photography: 2008

I-29 Exit 77 (41st Street) Crossroad Corridor Study

Sioux Falls, SD



Date of Aerial Photography: 2008

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U.S. Department of Transportation
Federal Highway Administration



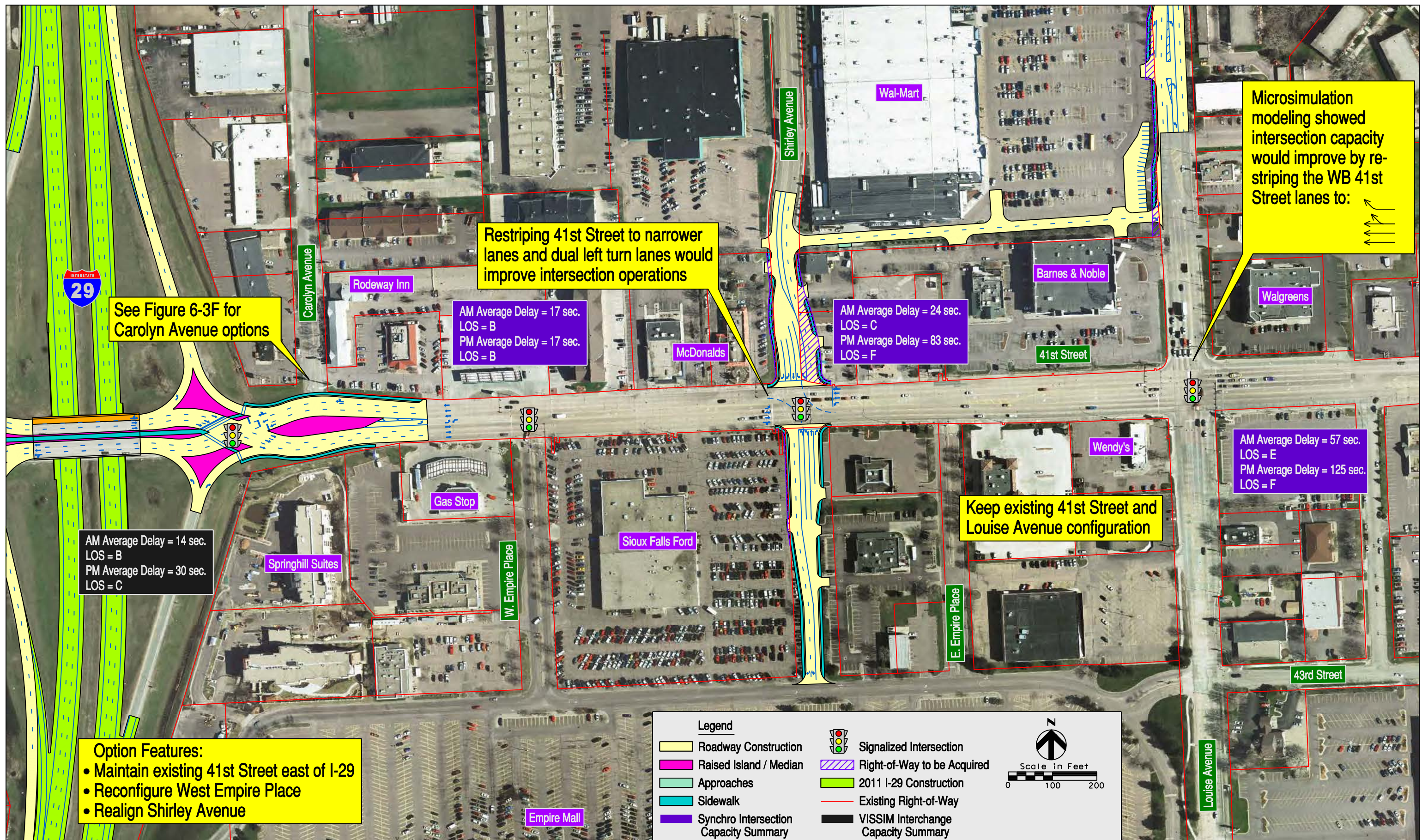
HDR

41st Street from Interstate 29 to Louise Avenue
Improvement Option B

I-29 Exit 77 (41st Street) Crossroad Corridor Study

Sioux Falls, SD

Figure
6-3B



Date of Aerial Photography: 2008

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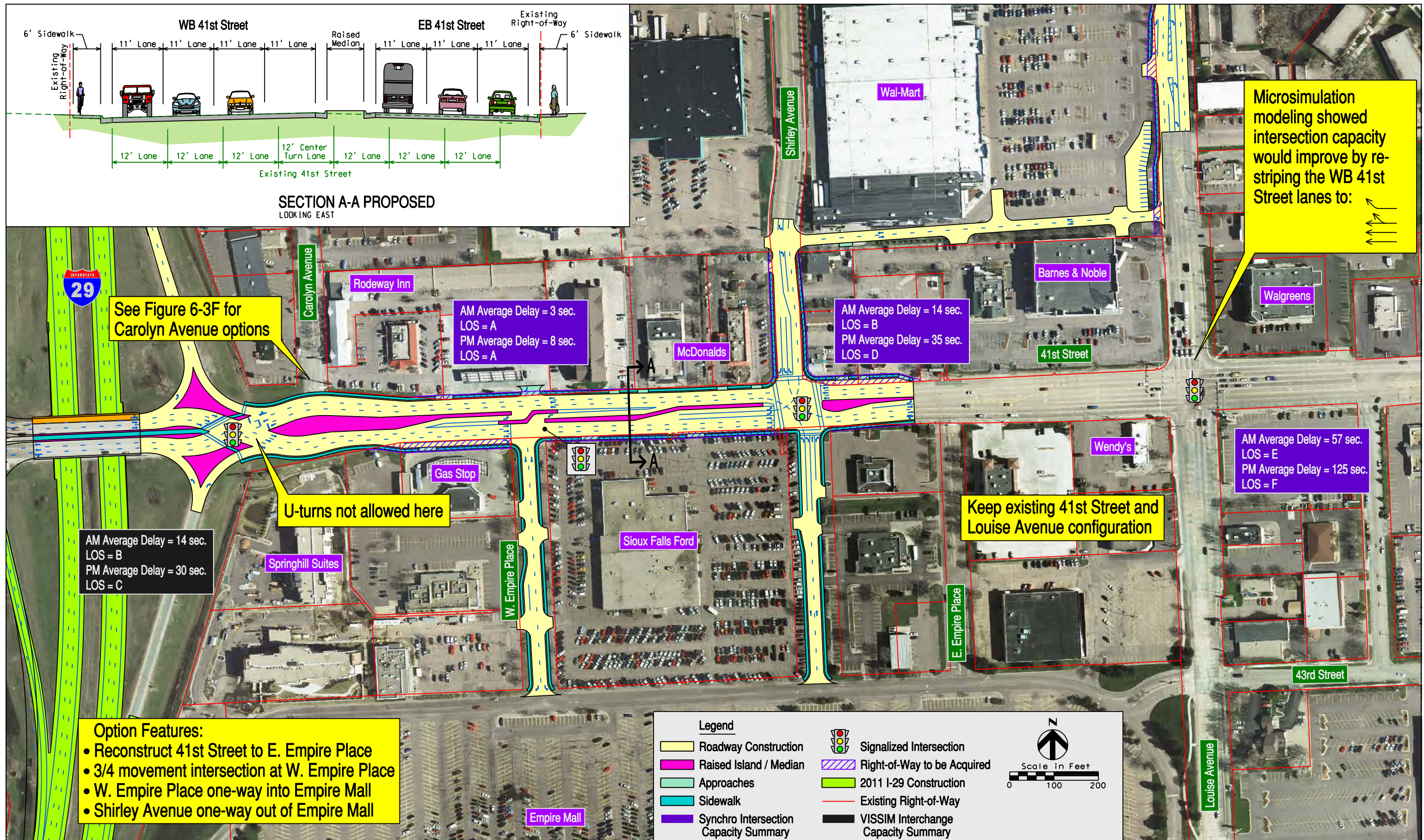
HDR

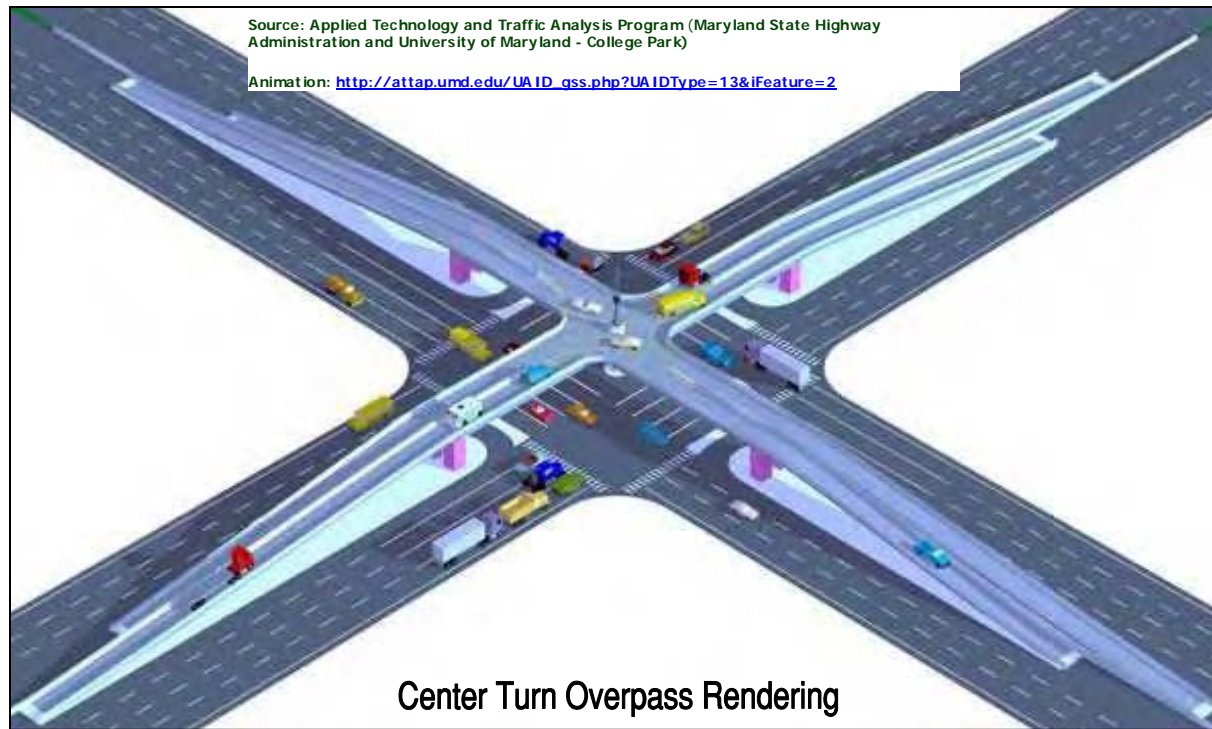
41st Street from Interstate 29 to Louise Avenue
Improvement Option C

I-29 Exit 77 (41st Street) Crossroad Corridor Study

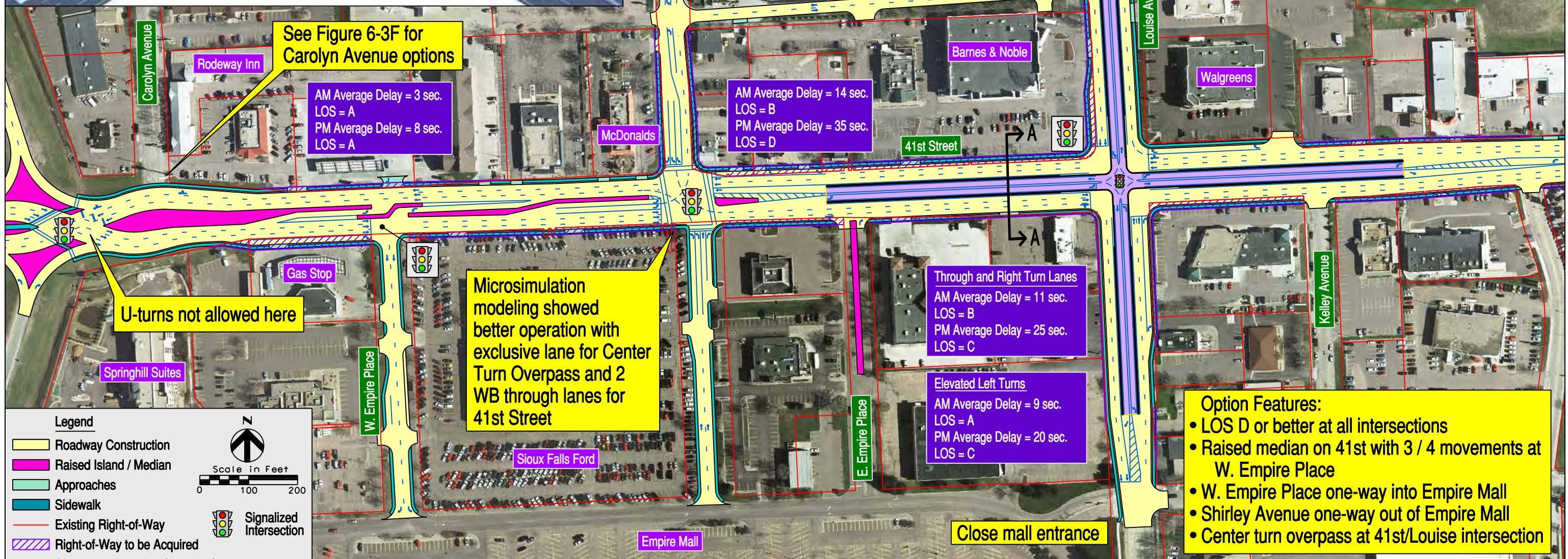
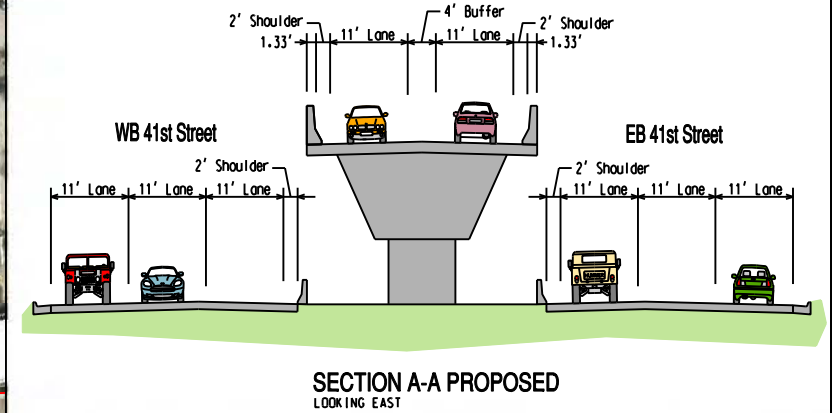
Sioux Falls, SD

Figure
6-3C





Center Turn Overpass Rendering



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